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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/698,894	10/27/2000	Anni Rosa Coden	YOR9-2000-0452	5971	
75	90 03/11/2004	EXAMINER			
Harry F Smith Esq			EHICHIOYA, FRED I		
Ohlandt Greeley Ruggiero & Perle L L P One Landmark Square			ART UNIT	PAPER NUMBER	
9th Floor			2172	12	
Stamford, CT	06901-2682	•	DATE MAILED: 03/11/2004	, 12	

Please find below and/or attached an Office communication concerning this application or proceeding.

X

Application No. Applicant(s) Option								
Examiner - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(n). In no event, however, may a reply be timely filled If the period for reply specified above, the maximum statutory period will apply and will expire SK (ft) MoNTHS from the mailing date of this communication for reply is specified above, the maximum statutory period will apply and will expire SK (ft) MoNTHS from the mailing date of this communication for reply is specified above, the maximum statutory period will apply and will expire SK (ft) MoNTHS from the mailing date of this communication even if thindy filled, may reduce any search application is the provision of the communication. The provision of the communication even if thindy filled, may reduce any search application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1 - 33 is/are pending in the application. 4a) Of the above daint(s) is/are withdrawn from consideration. 5□ □ claim(s)	·	Application No.	Applicant(s)	Cil _				
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Art Unit: 2172

DETAILED ACTION

Page 2

1. Response to communications filed on February 20, 2004.

 Applicant's arguments with respect to claims 1 - 33 have been considered but are most in view of the new ground(s) of rejection.

Claim Objections

3. Claims 11, 14, 19 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The followings is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach and/or suggest "the step of examining the information stream further . . ., identifying a second set of documents that correspond to words found in the text; scoring the returned documents based on a plurality of criteria and ranking the documents based on their scores".

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

Art Unit: 2172

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1, 2, 3, 4, 18, 24 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,500,920 issued to Julian M. Kupiec (hereinafter "Kupiec") in view U.S. Patent 5,625,767 issued to Brian Bartell et al (hereinafter "Bartell").

Regarding claims 1, 18, 24 and 33, Kupiec teaches a method for providing collateral information for inclusion with an information stream, comprising steps of:

examining the information stream to recognize a presence of events that occur in the information stream (see column 14, lines 15 – 20; "Kupiec discloses the phone sequence as information stream").

Kupiec does not explicitly teach wherein said events are derived from the information stream based on one or more predetermined taxonomies;

automatically generating database queries from derived events.

Page 3

analyzing results of said database queries so as to rank and select said results to be inserted into the information stream as information that is collateral to said derived events.

Bartell teaches said events are derived from the information stream based on one or more predetermined taxonomies (see column 2, lines 11 - 14);

automatically generating database queries from derived events (see column 1, lines 14 - 35).

analyzing results of said database queries so as to rank and select said results to be inserted into the information stream as information that is collateral to said derived events (see column 2, lines 11 - 21).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine teaching of Bartell with the teaching of Kupiec wherein classification documents under a predetermined set of classes or a predetermined hierarchical taxonomy create a pool of event where the information is examined. The motivation is that is that this pool can be analyzed and queried to extract desired information.

Regarding claim 2, Kupiec teaches the step of analyzing comprises a step of ranking the database query results based on a plurality of criteria (see column 12, lines 1 – 6 and column 17, lines 1 – 4).

Regarding claim 3, Kupiec teaches the plurality of criteria comprise a score derived from a free text search of the database using text that is automatically extracted from the information stream, on a number of named entities appearing in the text and in the database query results, and on a taxonomy path score, where the taxonomy path score represents an amount of relatedness between a taxonomy-related information element found in the text and a tree of the predetermined taxonomies (see column 16, lines 59 – 67 and column 17, lines 1 - 35).

Regarding claim 4, Bartell teaches the database queries are automatically generated based on information corresponding to a list that identifies topics in text that is automatically extracted from the information stream, where the topics correspond to topic taxonomies of the predetermined taxonomies (see column 1, lines 14 – 35 and column 2, lines 11 - 14).

Claims 5 – 10, 20 – 22, and 25 - 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kupiec in view of Bartell and further in view of U.S. Patent 5,835,667 issued to Howard D. Wactlar et al (hereinafter "Wactlar").

Regarding claim 5, Kupiec or Bartell does not explicitly teach extracting text.

Wactlar teaches the step of examining comprises a step of automatically extracting text from the information stream (see column 12, lines 52 - 58).

Art Unit: 2172

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine teaching of Wactlar with the teaching of Kupiec and Bartell wherein textual information are extracted from audio/video data. The motivation is that this data could be analyzed, searched and manipulated for desired segments.

Regarding claim 6, Kupiec teaches segmenting the text into sentences (see column 24, lines 51 - 55); and

operating on the sentences to identify topics that correspond to predetermined topic taxonomies, wherein the step of automatically generating database queries operates on identified topics (see column 16, lines 30 - 36).

Regarding claim 7, Wactlar teaches the step of automatically extracting text from the information stream comprises a step of operating a voice recognition system (see column 6, lines 57 - 58)

Regarding claim 8, Wactlar teaches the step of automatically extracting text from the information stream comprises a step of extracting closed caption text (see column 7, lines 58 - 62).

Art Unit: 2172

Regarding claim 9, Kupiec teaches the step of automatically extracting text from the information stream comprises a step of operating a character recognition system (see column 24, lines 32 – 35).

Regarding claim 10, Wactlar teaches the step of automatically extracting text from the information stream comprises a step of also generating text that is descriptive of a number of human faces that are present in an image conveyed by the information stream (see Figs. A-1 and A-2).

Regarding claim 20, Wactlar teaches examining subsystem comprises at least one unit for automatically extracting text from the information stream, a unit for segmenting the text into sentences and at least one unit for operating on the sentences to identify topics that correspond to topic taxonomies of the predetermined taxonomies, wherein said query generation subsystem automatically generates database queries based at least in part on identified topics (see column 12, lines 57 - 58).

Regarding claim 21, Kupiec teaches text extracting unit comprises at least one of a voice recognition system, a system for extracting closed caption text, and a character recognition system (see column 24, lines 32 – 35).

Page 7

Art Unit: 2172

Regarding claim 22, Wactlar teaches examining subsystem comprises a unit for generating text that is descriptive of a number of human faces that are present in an image conveyed by the information stream (see Figs.A-1 and A-2).

Page 8

Regarding claim 25, Wactlar teaches a step of inserting the collateral information into the audio/video stream in real time or substantially real time (see column 6, lines 36 – 38).

Regarding claim 26, Wactlar teaches examining includes a step of generating a speech transcript from at least the audio portion of the audio/visual stream, and wherein recognized events comprise speech topics (see column 6, lines 41 - 48).

Regarding claim 27, Wactlar teaches the audio/video stream originates as a television broadcast signal (see column 1, lines 25 – 33).

Regarding claim 28, Wactlar teaches the audio/video stream originates at a meeting, and further comprising a step of presenting the collateral information to meeting participants in real time or substantially real time (see column 1, lines 14 – 18 and 30 - 33).

Regarding claim 29, Wactlar teaches the step of presenting comprises a step of inserting the collateral information into the audio/video stream, and displaying the audio/video stream to the meeting participants (see Fig.4 step 42).

Regarding claim 30, Wactlar a step of archiving at least the collateral information (see column 6, lines 46 - 50).

Regarding claim 31, Wactlar teaches the database queries are automatically generated based on information corresponding to identified topics extracted from the audio/video stream, where the topics correspond to topic taxonomies of the predetermined taxonomies (see column 11, lines 50 - 51).

Regarding claim 32, Wactlar the step of examining includes steps of generating a speech transcript comprised of words from at least the audio portion of the audio/video stream; segmenting the words into sentences; and operating on the sentences to identify topics that correspond to topic taxonomies of the predetermined taxonomies, wherein the step of generating database queries operates on identified topics (see column 2, lines 44 - 53).

Page 10

Application/Control Number: 09/698,894

Art Unit: 2172

7. Claims 12, 13, 15, 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wactlar in view of Bartell.

Regarding claim 12, Wactlar teaches a method for providing collateral information for multiplexing with an information stream, comprising steps of:

converting the information stream into text (see column 6, lines 46 - 50); extracting data from database search results that is relevant to the information stream (see column 15, lines 2 - 6);

and multiplexing the data into the information stream for presentation at a destination of the information stream (see column 15, lines 20 - 67).

Wactlar does not explicitly teach analyzing the text to identify information elements based on one or more predetermined taxonomies; automatically generating queries from the information elements for searching at least one database.

Bartell teaches teach analyzing the text to identify information elements based on one or more predetermined taxonomies (see column 2, lines 11 - 21);

automatically generating queries from the information elements for searching at least one database (see column 1, lines 14 – 35 and column 2, lines 11 - 14);

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine teaching of Bartell with teaching of Wactlar wherein the queries are used in selecting desire audio/video stream. The motivation is that automatically generating these data base query saves time.

Regarding claim 13, Wactlar the step of extracting comprises a step of ranking the extracted information based on a plurality of criteria, and where the step of multiplexing uses the ranked data (see column 10, lines 15 - 22).

Regarding claim 15, Wactlar teaches the queries are generated based on information elements that correspond to a list of information elements identifying topics in the text being analyzed, where the topics correspond to topic taxonomies of the predetermined taxonomies (see column 6, line 67 and column 14, lines 46 - 57).

Regarding claim 16, Wactlar teaches the step of analyzing the text comprises steps of segmenting the text into sentences and a step of operating on the sentences to identify topics that correspond to topic taxonomies of the predetermined taxonomies, and wherein the step of automatically generating queries operates on identified topics (see column 12, lines 57 - 58).

Regarding claim 17, Wactlar teaches the step of analyzing the text comprises steps of at least segmenting the text into sentences, identifying names of entities within the text, and a step of operating on the sentences to identify topics that correspond to topic taxonomies of the predetermined taxonomies, and wherein the step of automatically generating queries operates on identified topics and ranks the database search results based at least on numbers of named entities found and on an amount of relatedness

between a taxonomy-related information element identified in the text and a tree of the predetermined taxonomies (see column 9, lines 41 - 56).

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fred I. Ehichioya whose telephone number is 703-305-8039. The examiner can normally be reached on M - F 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on 703-305-9790. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Fred I. Ehichioya Examiner Art Unit 2172 March 3, 2004

SHAVID ALAM ET